CSE 4251: Lab 6 (Optional Lab)

Due Date: Dec 6

Overview

These exercises will allow you to have some practice with the Unix/Linux environment, shell programming and basic *awk* scripting.

Exercise 1 Description

Import the file ***donations.txt***. For this exercise you are required to work with *awk* commands. Start by studying the ***donations.txt*** database file reviewing the structure and different fields. The database contains the names, phone numbers, and money contributions to a party campaign for the past three months.

This is what your report should look like:

```
                        *** CAMPAIGN 2016 ***
                        CONTRIBUTION REPORT Q1
----------------------------------------------------------------------
NAME                 PHONE            Jan  |  Feb  |  Mar  |  Total Donated
----------------------------------------------------------------------
Mike Harrington      (510) 548-1278  250.00   100.00  175.00   525.00
Christian Dobbins    (408) 538-2358  155.00    90.00  201.00   446.00
Susan Dalsass        (206) 654-6279  250.00    60.00   50.00   360.00
Archie McNichol      (206) 548-1348  250.00   100.00  175.00   525.00
Jody Savage          (206) 548-1278   15.00   188.00  150.00   353.00
Guy Quigley          (916) 343-6410  250.00   100.00  175.00   525.00
Dan Savage           (406) 298-7744  450.00   300.00  275.00  1025.00
Nancy McNeil         (206) 548-1278  250.00    80.00   75.00   405.00
John Goldenrod       (916) 348-4278  250.00   100.00  175.00   525.00
Chet Main            (510) 548-5258   50.00    95.00  135.00   280.00
Tom Savage           (408) 926-3456  250.00    68.00  200.00   618.00
Elizabeth Stachelin  (916) 440-1763  175.00    75.00  300.00   550.00
                                    2595.00  1456.00 2086.00  6,137.00
----------------------------------------------------------------------
----------------------------------------------------------------------
Summary

Total received this quarter: $6137.00.

Best month: $2595.00
Number of contributors: 12
Highest contribution: $450.00.   (Dan Savage)
Lowest contribution:  $15.00

Average donation: $511.42.
```

Write an *awk* script ***donationsReport.awk*** to generate the following report processing the donations.txt database file (use awk -f *donationsReport.awk donations.txt)*.

Hint: start trying one part of the report at a time: first titles, then totals, then maximum, average, line formatting, report structure, etc.). Save the report to a file titled **reportQuarter1.txt.**

The script must have a comment section with the script name, your name(s), the date, and a short description of the script.

When you have it working correctly, use the command *script* to save the evidence and submit it. Name that file ***Lab6_1.txt***

Submission Instructions

To submit, create a single zip file named with the format of **Lab6.zip** that contains the files from the different exercises. Please note this zip file should have only **3 files:**
donationsReport.awk
reportQuarter1.txt
Lab6_1.txt